



EXPLANATION

QUATERNARY

- QAL** UNDIFFERENTIATED SURFICIAL DEPOSITS.
- G** GOSSAN - LIMONITIC ROCKS AFTER MASSIVE, SEMI-MASSIVE AND VEINED SULFIDES.

CRETACEOUS

- KMP** QUARTZ MONZONITE PORPHYRY AND OTHER FELSIC PORPHYRITIC ROCKS OF THE ROUND TOP STOCK. ASSIGNED A LATE CRETACEOUS AGE BASED ON A POTASSIUM/ARGON DATE OF 72.9 M.Y.
- KQM** CHIEFLY FRESH, MEDIUM- TO COARSE-GRAINED EQUIGRANULAR BIOTITE QUARTZ MONZONITE.
- KGD** GREENISH-GRAY, FINE- TO MEDIUM-GRAINED DIORITE AND GRANODIORITE. COMMONLY FOLIATED AND CHLORITIZED.
- KSU** UNDIFFERENTIATED SEDIMENTS; MOSTLY GRAYWACKE, SILTSTONES, AND TURBIDITES.

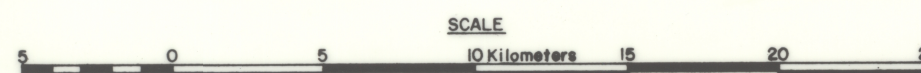
JURASSIC(?)

- JUM** UNDIFFERENTIATED ULTRAMAFIC INTRUSIVE ROCKS; INCLUDES PYROXENITE, SERPENTINIZED PERIDOTITE, RARE NORITE, DUNITE. MOSTLY SILL LIKE INTRUSIVES.
- JMI** UNDIFFERENTIATED MAFIC INTRUSIVE ROCKS; INCLUDES GABBRO, DIABASE AND BASALT. MOSTLY SILL LIKE INTRUSIVES.
- JVS** UNDIFFERENTIATED VOLCANOGENIC SEDIMENTS; INCLUDES MAINLY GREEN, PURPLE AND RED SILTY SHALES, GRAYWACKE, TURBIDITE, LOCAL CHERT.
- JMV** UNDIFFERENTIATED MAFIC VOLCANIC ROCKS; INCLUDES BASALT, ANDESITE, PYROCLASTIC ROCKS. MARINE - COMMON PILLOW LAVAS.

REGIONAL UNCONFORMITY

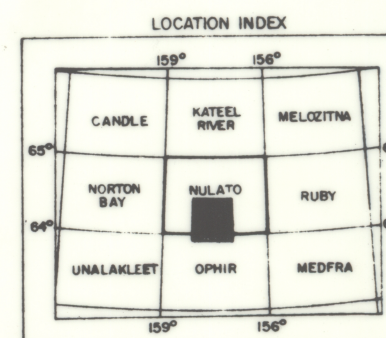
PALEOZOIC/PROTEROZOIC(?)

- PZM** UNDIFFERENTIATED MICA SCHISTS; INCLUDES QUARTZ, CHLORITE, MUSCOVITE, BIOTITE-RICH VARIETIES.
- PZQS** QUARTZ SCHISTS; VARIABLY MICACEOUS AND LOCALLY GRAPHITIC.
- PZF** QUARTZ-SERICITE SCHIST, VARIABLY FELDSPATHIC; POSSIBLY OF FELSIC TUFFACEOUS ORIGIN.
- PZC** CHLORITIC SCHISTS; INCLUDES ACTINOLITE AND PLAGIOCLASE-BEARING VARIETIES; POSSIBLY OF MAFIC IGNEOUS ORIGIN.
- PZCS** CALCAREOUS CHLORITE SCHISTS.
- PZG** GRAPHITIC SCHISTS.
- PZQ** QUARTZITE, DOLOMITIC QUARTZITE, AND MINOR DOLOMITE OF THE ILLINOIS CREEK TYPE.
- PZL** UNDIFFERENTIATED CARBONATES; INCLUDES LIMESTONE, MARBLE, DOLOMITE, AND LOCAL CALC-SILICATE HORNFELS.
- PZS** META-GRAYWACKE, SILTSTONE; INCLUDES SUBORDINATE CHLORITE, GARNET AND ANDALUSITE-BEARING VARIETIES. COMMONLY HORNFELSED ADJACENT TO GRANITIC ROCKS IN THE KHOTOL MOUNTAIN AREA.



- BEDDING ATTITUDE**
- FOLIATION ATTITUDE**
- MINES OR MAJOR PROSPECTS**
- FAULT - QUERIED WHERE UNCERTAIN**
- LITHOLOGIC CONTACT**
- EXTENT OF SURFICIAL DEPOSITS**

GEOLOGY MODIFIED AFTER DIMO, 1980.



TITLE: GEOLOGIC MAP OF THE KAIYUH MOUNTAINS

LOCATION: Nulato Quadrangle, Alaska

SCALE: 1:250,000

DATA BY: NHB, FLH, DBR

DATE: 11/5/81

DRAWN BY: DBR

FILE NO.:

TO ACCOMPANY REPORT BY: Nathan H. Brewer

ANACONDA

GEOLOGY DEPT - ALASKA REGION